	Application No.	Applicant(s)
	10/630,568	MORI ET AL.
Notice of Allowability	Examiner	Art Unit
	Son L. Mai	2827
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. X This communication is responsive to papers filed 07-29-03	and 11-06-03.	
2. X The allowed claim(s) is/are 1-27.		
3. A The drawings filed on 29 July 2003 are accepted by the Ex	aminer.	
4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have  2.  Certified copies of the priority documents have  3.  Copies of the certified copies of the priority documents have  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give  1.  CORRECTED DRAWINGS (as "replacement sheets") must  (a)  including changes required by the Notice of Draftspers  1.  Paper No./Mail Date  (b)  including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to  1.  DEPOSIT OF and/or INFORMATION about the depo  attached Examiner's comment regarding REQUIREMENT	e been received.  been received in Application No cuments have been received in this  of this communication to file a reply IENT of this application.  itted. Note the attached EXAMINER es reason(s) why the oath or declara is to be submitted.  son's Patent Drawing Review ( PTO- s Amendment / Comment or in the ( .84(c)) should be written on the drawi he header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL	national stage application from the complying with the requirements  I'S AMENDMENT or NOTICE OF ation is deficient.  1948) attached  Office action of the back) of (d).  must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amend	ite

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## **DETAILED ACTION**

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Allowable Subject Matter

- 2. Claims 1-27 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach a reading circuit for reading data from one memory cell of a plurality of memory cells. The reading circuit comprises: division sensing circuits and a current-voltage conversion circuit. Each of the division sensing circuits includes a current load circuit for supplying a current to a selected memory cell via a corresponding sensing line, and a sense amplifier for sensing a potential difference between the potential of the corresponding sensing line and a potential of a corresponding reference line. And the current load circuit has a current supply capability which is different from the current supply capability of the current load circuit included in another division sensing circuits.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Uekubo; Masaki (U.S. Patent 6118701), Tanzawa; Toru et al. (U.S. Patent 6233189), Micheloni; Rino et al. (U.S. Patent 6301149), and Kim; Dae-Han (U.S. Patent 6445616) teach parallel sensing systems in semiconductor memory devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786.

The examiner can normally be reached on 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

04-11-05

Son L. Mai Primary Examiner Art Unit 2827